

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product Name: Copper Grease
Product Code: 0856, 1699, 0154, 0155, 0151, 0149, 0148
UFI: FKN4-MSS9-T00A-V2DN

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Relevant identified uses:**

Main use:	Industrial
Industrial/Professional Use spec:	For professional use only
Function or use category:	Industrial Lubricant

1.2.2 Uses advised against

No additional information available

1.3 Details of the supplier of the safety data sheet

Company (UK): Granville Oil & Chemicals Ltd, 29 Goldthorpe Ind. Est., Goldthorpe, Rotherham, S63 9BL, UK.
Tel: +44 (0)1709 890099 | Email: lab@granvilleoil.com
Company (EU): Veedol Ireland Ltd, 77 Camden Street Lower, Saint Kevin's, Dublin, Ireland, D02 XE80.
Tel: +353 151 363 47

1.4 Emergency telephone number

Emergency Tel: +44 (0)1709 890099 (Office hours only)

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification (EC 1272/2008)**

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects

Not classified.

2.2 Label elements:**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

GHS09

Hazard Pictogram(s)	
Signal Word(s)	None.
Hazard Statement(s)	H411: Toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P273: Avoid release to the environment. P391: Collect spillage. P501: Dispose of contents in accordance with local, state or national legislation.

2.3 Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII
The mixture does not contain substance(s) included in the list established in accordance with Article 59 (1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%.

2.4 Additional Information

For full text of H/P statements see section 16.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances: N/A

3.2 Mixtures:

HAZARDOUS INGREDIENTS	CAS NO.	EC No/REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Copper	7440-50-8	231-159-6	0.3-2.4	Acute Tox. 4 H302 Eye Irrit. 2 H319 Acute Tox. 3 H331 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS06 GHS07 GHS09

HAZARDOUS INGREDIENTS	CAS NO.	Specific concentration limit	M-factor	ATE
Copper	7440-50-8		Aquatic Acute 1: 10 Aquatic Chronic 1: 10	Acute Tox. 4 (H302) : 0.733 (17th ATP) Acute Tox. 3 (H331) : 0.733 Dust (17th ATP)

Contains no non-classified vPvB substances.

Contains no non-classified substances with a Union workplace exposure limit.

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact: Wash with soap and water

Eye contact: Wash out all residual material with water. Bathe eye with running water for several minutes. If irritation continues seek medical advice.

Inhalation: Unlikely due to low volatility of product. If inhaled move to fresh air and seek medical advice

Ingestion: Wash mouth with water. Do not induce vomiting, seek medical advice.

4.2 Most important symptoms and effects both acute and delayed

Non anticipated. In case of fire toxic gases may be formed

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media: Extinguish with dry powder, foam, sand, earth, CO₂

UNSUITABLE Extinguishing media: Water jet.

Protective equipment: Self contained breathing apparatus

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General measures: Remove ignition sources. May cause slippery conditions underfoot.
Do not get in eyes, on skin or on clothing.

6.1.1 For non-emergency personnel

Protective equipment: Wear suitable protective clothing.

Emergency procedures: Keep public away from danger area. Do not breathe fumes from fires or vapours from decomposition.

6.1.2 For emergency responders

Protective equipment: Equip clean up crew with proper protection.

6.2 Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Collect spillage. Dispose of at a licensed waste collection centre.

6.4 Reference to other sections

No additional information.

Spillage: Apply suitable absorption media, scrape up in bulk then wipe remainder with cloth.

SECTION 7: HANDLING & STORAGE

7.1 Precautions for safe handling

Precautions for safe handling: Provide good ventilation in process area to prevent formation of Vapour. Use PPE as required. No open flames. No smoking. Avoid Contact with skin, eyes and clothing. Do not breathe fumes from fires Or vapours from decomposition.

Hygiene measures: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product.

7.2 Conditions for safe storage, including incompatibilities

Storage conditions: Store in a dry place. Store in original container. Keep away from heat, hot Surfaces, sparks, open flames and other ignition sources. No smoking. Store In a dry place.

Storage temperature: 5-20 °C

Incompatible products: Strong bases. Strong acids.

7.3 Specific end use(s)

No additional information available.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

8.1.1 National occupational exposure and biological limit values

SUBSTANCE	CAS No.	LTEL (8Hr TWA ppm)	LTEL (8Hr TWA mg/m3)	STEL (ppm)	STEL (mg/m3)	Note
Copper fume (as Cu)	7440-50-8		0.2			
Copper and compounds: dusts and mists (as Cu)	7440-50-8		1		2	

Region	Source
United Kingdom	UK workplace Exposure Limits EH40 2005 (4th Edn. Published 2020)

8.1.2 Recommended monitoring procedures

No additional information available

8.1.3 Air contaminants formed

No additional information available

8.1.4 DNEL and PNEC

No additional information available

8.1.5 Control banding

No additional information available

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Ensure good ventilation of the work station.

8.2.2 Personal protection equipment

8.2.2.1 Eye and face protection



Eye protection: Use splash goggles when eye contact due to splashing is possible

8.2.2.2 Skin protection



Skin and body protection: Wear suitable protective clothing

Hand protection: In case of repeated or prolonged contact wear gloves. Nitrile-rubber protective gloves. Chemical resistant gloves (according to European standard NF EN 374 or equivalent).

Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

8.2.2.3 Respiratory protection

Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

8.2.2.4 Thermal hazards

No additional information available

8.2.3 Environmental exposure controls

Environmental exposure controls: No data available.

Consumer exposure controls: No data available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Solid - Grease – free from visible impurities
Colour:	Copper
Odour:	Slight
Odour threshold:	N/A
pH:	N/A

Relative evaporation rate (butylacetate=1):	N/A
Melting point:	>200 °C
Freezing point:	N/A
Boiling point:	N/A
Flash point:	In excess of 260°C
Auto-ignition Temperature:	N/A
Decomposition Temperature:	N/A
Flammability:	N/A
Vapour pressure:	N/A
Relative vapour density at 20 °C	N/A
Relative density:	~0.98 (25 °C)
Solubility in water:	Insoluble.
Partition coefficient n-octanol/water (log Pow)	N/A
Viscosity, kinematic	N/A
Viscosity, dynamic:	N/A
Explosive properties:	N/A
Oxidising properties:	N/A
Explosive limits:	N/A

9.2 Other information: VOC content – 0%

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Not expected to present a significant hazard under normal conditions

10.2 Chemical Stability: Stable under normal conditions

10.3 Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid: Powerful sources of ignition and extremes of temperature

10.5 Materials to avoid: Strong oxidising agents

10.6 Hazardous decomposition products: Oxides of carbon, possible smoke and soot

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Not considered toxic under normal handling. (Acute LD50 - Rat oral > 2000mg/Kg)	
Acute toxicity (oral):	Not classified	
Acute toxicity (dermal):	Not classified	
Acute toxicity (inhalation):	Not classified	
Skin corrosion/irritation:	Not classified PH:	Not applicable
Serious eye damage/irritation:	Not classified PH:	Not applicable
Respiratory or skin sensitisation:	Not classified	
Germ cell mutagenicity:	Not classified	
Carcinogenicity:	Not classified	
Reproductive toxicity:	Not classified	
STOT-single exposure:	Not classified	

STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified
Potential adverse human health effects and symptoms:	Repeated or prolonged skin contact may cause dermatitis and defatting

11.2 Information on other hazards

ECHA Endocrine disruptor assessment list: 7440-5-8, 231-159-6 (Reason not given)

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Ecology- general: Notify authorities if product enters sewers or public waters. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems
Toxic to aquatic life with long lasting effects.

Toxicity - Aquatic invertebrates	Not known.
Toxicity - Fish	Not known.
Toxicity - Algae	Not known.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and degradability

Copper Antiseize: Persistence and degradability: Not established.

12.3 Bioaccumulative potential:

Copper Antiseize: Bioaccumulative potential: Not established.

12.4 Mobility in soil

Copper Antiseize: Ecology – soil: Not established.

12.5 Results of PBT and vPvB assessment

PBT: Not relevant – no registration required.

vPvB: Not relevant – no registration required.

12.6 Other adverse effects: No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product/Packaging disposal recommendations:	Dispose in a safe manner in accordance with local/national regulations.
Ecology – waste materials:	Avoid release to the environment.
European List of Waste code (LOW):	12 01 12 – spent waxes and fats.

SECTION 14: TRANSPORT INFORMATION**14.1 UN number or ID number**

UN No. 3077

14.2 UN proper shipping name UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3 Transport hazard class(es)

ADR/RID:

ADR/RID Class:	9
ADR Classification Code:	M7
Special Provisions:	274, 335, 375, 601
Limited Quantities:	5 kg
Excepted Quantities:	E1
Emergency Action Code:	2Z Mixed
Packing Instructions for Packages:	P002 IBC08 LP02 R001
Special Packing Provisions for Packages:	PP12 B3
Mixed Packing Instructions for Packages:	MP10
Packing Instructions for Portable Tanks:	T1 BK1 BK2 BK3
Special Provisions for Portable Tanks:	TP33
Tank Code for Tanks:	SGAV LGBV
Special Provisions for Tanks	
Vehicle for Tank Carriage:	AT
ADR Transport Category:	3
Tunnel Restriction Code:	–
Special Provisions for Carriage – Packages:	V13
Special Provisions for Carriage – Bulk:	VC1 VC2
Special Provisions for Carriage - Loading, Unloading and Handling:	CV13
Special Provisions for Carriage – Operation:	
ADR HIN:	90
IMDG Class:	9
Special Provisions:	274, 335, 375, 601
Limited Quantities:	5 kg
Excepted Quantities:	E1
Mixed Packing Instructions for Packages:	P002 IBC08 LP02 R001
Special Packing Provisions for Packages:	PP12 B3
Packing Instructions for Portable Tanks:	T1 BK1 BK2 BK3
Special Provisions for Portable Tanks:	TP33
IMDG EMS:	F-A, S-F
Stowage and Handling:	Category A SW23
Segregation:	
Marine Pollutant:	
IATA Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Excepted Quantities	E1
Passenger and Cargo Aircraft Limited Quantities Packing Instructions:	Y956
Passenger and Cargo Aircraft Limited Quantities Max net Qty:	30Kg G
Passenger and Cargo Aircraft Packing Instructions:	956
Passenger and Cargo Aircraft Max net Qty:	400Kg
Cargo Aircraft Packing Instructions	956
Cargo Aircraft Max net Qty:	400Kg

Special Provisions:

A97, A158, A179, A197, A215

Emergency Response Guidebook (ERG) Code:

9L

Labels:

9

**14.4 Packing group**

Packing group III

14.5 Environmental hazards

Environmental hazards Classified as a Marine Pollutant.

14.6 Special precautions for user Not known.**14.7 Maritime transport in bulk according to IMO instruments** No information available**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1 EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Copper (7440-50-8)
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

VOC content: 0%

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU2019/1148 on the marketing and use of explosives precursors)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances).

15.1.2 National regulations : No additional information available.**15.2 Chemical safety assessment:** No chemical safety assessment has been carried out.**SECTION 16: OTHER INFORMATION****General Information**

Only trained personnel should use this material.

DATA SOURCES:

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Risk Phrases In Full

None required

Hazard Classification In Full

Acute Tox. 4:	Acute toxicity, Category 4
Eye Irrit. 2:	Serious eye damage/irritation, Category 2
Acute Tox. 3:	Acute toxicity, Category 3
Aquatic Acute 1:	Hazardous to the aquatic environment, Acute, Category 1
Aquatic Chronic 1:	Hazardous to the aquatic environment, Chronic, Category 1 Aquatic
Chronic 2:	Hazardous to the aquatic environment, Chronic, Category 2

Hazard statements In Full

H302:	Harmful if swallowed.
H319:	Causes serious eye irritation.
H331:	Toxic if inhaled.
H400:	Very toxic to aquatic life.
H410:	Very toxic to aquatic life with long lasting effects.
H411:	Toxic to aquatic life with long lasting effects.

Precautionary statements In Full

P273:	Avoid release to the environment.
P391:	Collect spillage.
P501:	Dispose of contents in accordance with local, state or national legislation.

Acronyms

ADN:	European Agreement concerning the International Carriage of Dangerous Goods by Waterways
Inland	
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by
Road ATE:	Acute Toxicity Estimate
CAS:	Chemical Abstracts Service
CLP:	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances
and mixtures	
DNEL:	Derived No Effect Level
EC:	European Community
EINECS:	European Inventory of Existing Commercial Chemical Substances
IATA:	International Air Transport Association
IBC:	Intermediate Bulk Container
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Dangerous Goods
LTEL:	Long term exposure limit
PBT:	Persistent, Bioaccumulative and Toxic
PNEC:	Predicted No Effect Concentration
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID:	Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL:	Short term exposure limit
STOT:	Specific Target Organ Toxicity
UN:	United Nations
vPvB:	very Persistent and very Bioaccumulative

Disclaimer

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